KUS640 User's Manual

Product Overview

KUS640 series intelligent ultrasonic level gauge/level sensor is a level gauge product with on-site display and 4-20mA remote transmission 485 remote transmission launched by our company.

Product Features

◆Power supply: 24VDC, customized support 12-24VDC
◆Special wide temperature LCD display (-30℃～80℃);
◆Vertical installation or axial installation, providing a variety of liquid level/level interfaces and interface materials;
◆ LCD with parameterization and three setting buttons.

Application

KUS640 series is used to indicate and monitor the changes of water water level value at the installation site, and upload the real-time data to the centralized management platform through the built-in wireless transmission module, which is convenient for users to manage intelligently and centralizedly. It is mainly used in the following industries:

- **Fire water system**
- **City water supply**
- **Sewage treatment**
- **Long-distance heating**
- **Food industry**
- **Chemical, energy**

Technical Parameter

Medium	liquid level, solid level
Range	150mm-1000mm（***Can be customized according to demand***） 200mm-3000mm/300mm-6000mm/300mm-12000/600mm-20000mm/1.2m-30m/1.8-50m
Accuracy	RS485/4-20mA，0.5%-1%FS/ 0.15℃
Temperature Compensation	-10℃～70℃
Vibration Effects	< ± 0.05％/g，500Hz in all directions (according to IEC 68-2-64)
Ambient Temperature	-25～+85℃
Storage Temperature	-40～+85℃
Protection	IP65 ， Complies with EN 60529

Electromagnetic Compatibility	EN 61326/A2 Appendix A （2001 ）
Display and Control	
Display	SFTN liquid crystal, green backlight, 5-digit display.
Limit value	Free settings
Parameter Settings	Use 3 buttons
Unit	mm, the default unit is m.
Weight	About 1.35kg
Materials of non-wetted parts	
Joint	1NPT，Stainless steel, length 20mm (material and joint specifications can be customized according to customer requirements).
Electrical Connections	Make waterproof connectors, air vent cable entries according to EN 175301-803A
Measurement Period	≤default 200ms, user set

Selection Tips: For special requirements, please contact our company and indicate it in the order.

Precautions:

1. If you need to calibrate the instrument, please contact our company. Non-professionals are not allowed to calibrate the instrument.
2. When calibrating the watch, please turn on the watch first, and then calibrate after 1 hour of constant temperature.

Installation and Maintenance

1、 Installation

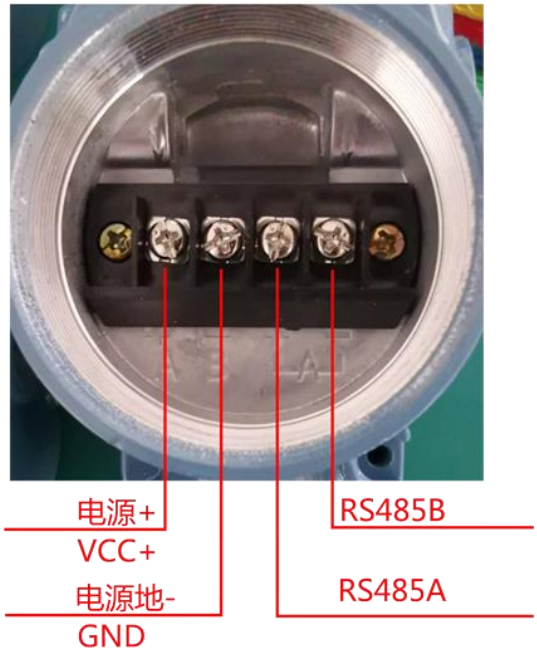
1) The instrument should be installed vertically and horizontally.

2) When using with other instruments, pay attention to the matching of the range.

3) Before installing the digital meter on the device, check whether the meter head is clean. During use, the pipeline should be kept clean.

2、 Wiring method

1) RS485 appears wiring method



2) 4-20mA appears wiring method

3、 Maintain

1) The instrument is a high-precision instrument, and should be selected in a place with air circulation, easy observation, and easy maintenance and operation.

2) Although the digital sensor can exceed the range during use, long-term use will affect the accuracy of the measurement and may damage the meter. It is recommended that the user use the meter according to the range.

Storage and Transportation

1. The product should be stored at -40℃~+80℃, relative humidity not more than 90%, ventilated, dry and non-corrosive gas warehouse.

2. The product, the certificate of conformity and the instruction manual are packed in one package, and strong collision is strictly prohibited during transportation.

Note: The contents of the manual are subject to change without prior notice, please pay attention to keep in touch.

Order information

KUS	Model	Output	Range		Describe
	640				Product series model
	Custom				
		---			without output
		4-20mA			4-20mA
		RS485			RS485 (default)
			XXX mm		XXX mmlt means the maximum measurement distance is 1m-50m can be customized
				YYY mm	YYY is the length of the split order cable, the default is 1.2 meters
KUS	640	4-20mA	3000mm		